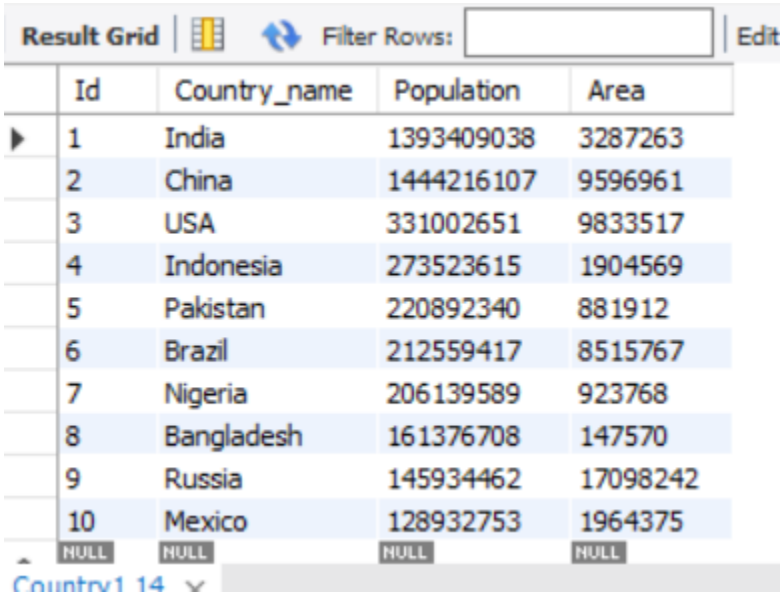
Create a table named Country with fields: Id Country_name Population Area

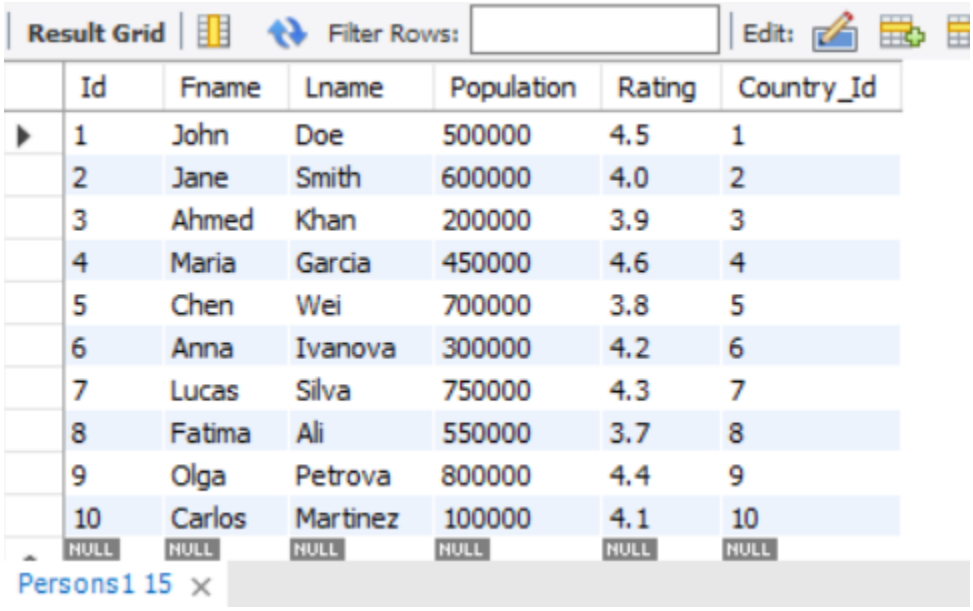


Result Grid | Filter Rows: | Edit

Id	Country_name	Population	Area
1	India	1393409038	3287263
2	China	1444216107	9596961
3	USA	331002651	9833517
4	Indonesia	273523615	1904569
5	Pakistan	220892340	881912
6	Brazil	212559417	8515767
7	Nigeria	206139589	923768
8	Bangladesh	161376708	147570
9	Russia	145934462	17098242
10	Mexico	128932753	1964375
NULL	NULL	NULL	NULL

Country1 14

Create another table named Persons with fields: Id Fname Lname Population Rating Country_Id Country_name

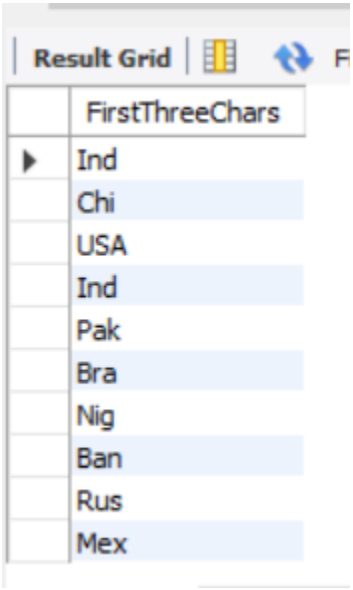


Result Grid | Filter Rows: | Edit:

Id	Fname	Lname	Population	Rating	Country_Id
1	John	Doe	500000	4.5	1
2	Jane	Smith	600000	4.0	2
3	Ahmed	Khan	200000	3.9	3
4	Maria	Garcia	450000	4.6	4
5	Chen	Wei	700000	3.8	5
6	Anna	Ivanova	300000	4.2	6
7	Lucas	Silva	750000	4.3	7
8	Fatima	Ali	550000	3.7	8
9	Olga	Petrova	800000	4.4	9
10	Carlos	Martinez	100000	4.1	10
NULL	NULL	NULL	NULL	NULL	NULL

Persons1 15

-- 1. Write an SQL query to print the first three characters of Country_name from the Country table.
SELECT LEFT(Country_name, 3) AS FirstThreeChars FROM Country1;



Result Grid

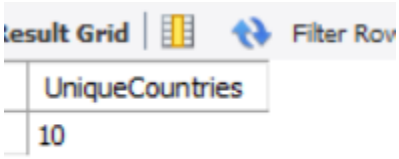
FirstThreeChars
Ind
Chi
USA
Ind
Pak
Bra
Nig
Ban
Rus
Mex

-- 2. Write an SQL query to concatenate first name and last name from Persons table.
SELECT CONCAT(Fname, ' ', Lname) AS FullName FROM Persons1;

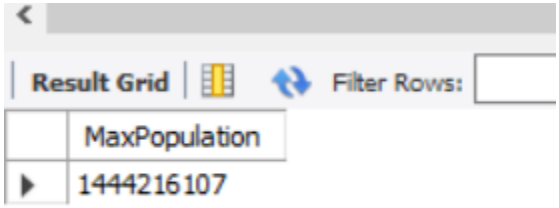
Result Grid | Filter Rc

FullName
John Doe
Jane Smith
Ahmed Khan
Maria Garcia
Chen Wei
Anna Ivanova
Lucas Silva
Fatima Ali
Olga Petrova
Carlos Martinez

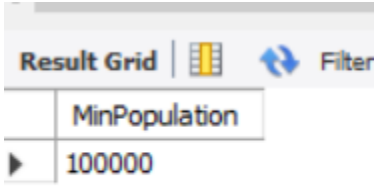
-- 3. Write an SQL query to count the number of unique country names from Persons table
SELECT COUNT(DISTINCT Country_Id) AS UniqueCountries FROM Persons1;



-- 4. Write a query to print the maximum population from the Country table.
SELECT MAX(Population) AS MaxPopulation FROM Country1;

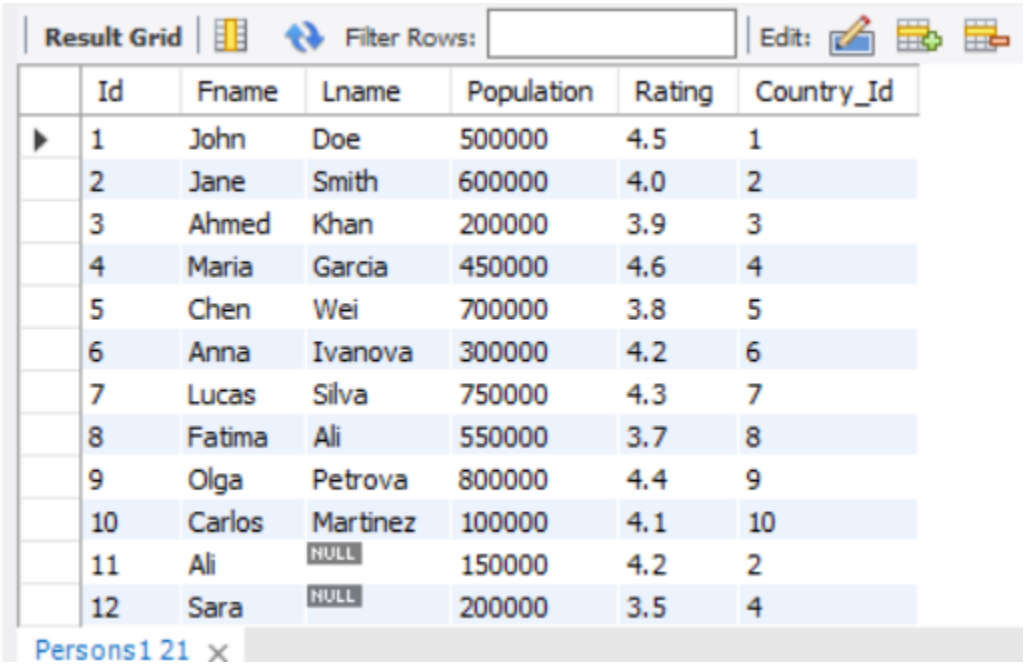


-- 5. Write a query to print the minimum population from Persons table.
SELECT MIN(Population) AS MinPopulation FROM Persons1;



-- 6. Insert 2 new rows to the Persons table making the Lname NULL. Then write another query to count Lname from Persons table.
INSERT INTO Persons1 (Id, Fname, Lname, Population, Rating, Country_Id)
VALUES
(11, 'Ali', NULL, 150000, 4.2, 2),
(12, 'Sara', NULL, 200000, 3.5, 4);

SELECT * FROM Persons1;

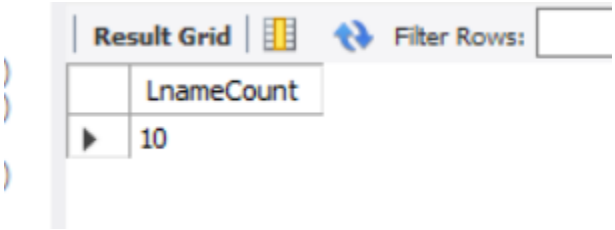


Result Grid | Filter Rows: | Edit:

Id	Fname	Lname	Population	Rating	Country_Id
1	John	Doe	500000	4.5	1
2	Jane	Smith	600000	4.0	2
3	Ahmed	Khan	200000	3.9	3
4	Maria	Garcia	450000	4.6	4
5	Chen	Wei	700000	3.8	5
6	Anna	Ivanova	300000	4.2	6
7	Lucas	Silva	750000	4.3	7
8	Fatima	Ali	550000	3.7	8
9	Olga	Petrova	800000	4.4	9
10	Carlos	Martinez	100000	4.1	10
11	Ali	NULL	150000	4.2	2
12	Sara	NULL	200000	3.5	4

Persons1 21

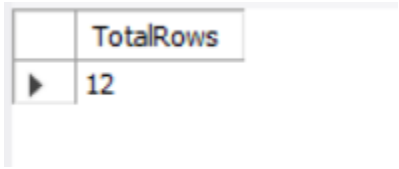
SELECT COUNT(Lname) AS LnameCount FROM Persons1;



Result Grid | Filter Rows:

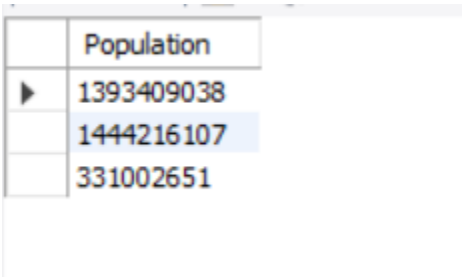
LnameCount
10

-- 7. Write a query to find the number of rows in the Persons table
SELECT COUNT(*) AS TotalRows FROM Persons1;



TotalRows
12

-- 8. Write an SQL query to show the population of the Country table for the first 3 rows. (Hint: Use LIMIT)
SELECT Population FROM Country LIMIT 3;



Population
1393409038
1444216107
331002651

-- 9. Write a query to print 3 random rows of countries. (Hint: Use rand() function and LIMIT)
SELECT * FROM Country1 ORDER BY RAND() LIMIT 3;

Id	Country_name	Population	Area
8	Bangladesh	161376708	147570
7	Nigeria	206139589	923768
6	Brazil	212559417	8515767
NULL	NULL	NULL	NULL

-- 10. List all persons ordered by their rating in descending order.
SELECT * FROM Persons1 ORDER BY Rating DESC;

Result Grid | Filter Rows: | Edit:

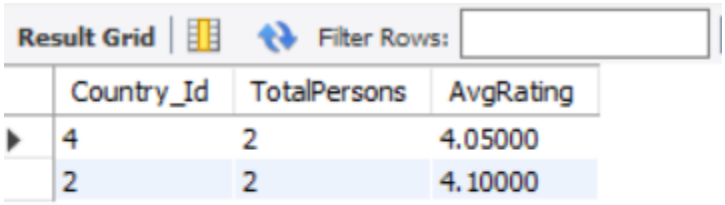
Id	Fname	Lname	Population	Rating	Country_Id
4	Maria	Garcia	450000	4.6	4
1	John	Doe	500000	4.5	1
9	Olga	Petrova	800000	4.4	9
7	Lucas	Silva	750000	4.3	7
6	Anna	Ivanova	300000	4.2	6
11	Ali	NULL	150000	4.2	2
10	Carlos	Martinez	100000	4.1	10
2	Jane	Smith	600000	4.0	2
3	Ahmed	Khan	200000	3.9	3
5	Chen	Wei	700000	3.8	5
8	Fatima	Ali	550000	3.7	8
12	Sara	NULL	200000	3.5	4

-- 11. Find the total population for each country in the Persons table.
SELECT Country_Id, SUM(Population) AS TotalPopulation FROM Persons1 GROUP BY Country_Id;

Country_Id	TotalPopulation
1	500000
2	750000
3	200000
4	650000
5	700000
6	300000
7	750000
8	550000
9	800000
10	100000

- 13. List the total number of persons and average rating for each country, but only for
-- countries with more than 1 persons, ordered by the average rating in ascending order.

```
SELECT Country_Id, COUNT(*) AS TotalPersons, AVG(Rating) AS AvgRating
FROM Persons1
GROUP BY Country_Id
HAVING COUNT(*) > 1
ORDER BY AvgRating ASC;
```



Country_Id	TotalPersons	AvgRating
4	2	4.05000
2	2	4.10000